Marc Sevaux

List of Publications by Year
in descending order

74 papers	1,516 citations	331670 21 h-index	377865 34 g-index
79 all docs	79 docs citations	79 times ranked	1299 citing authors

#	Article	IF	Citations
1	A metaheuristic for the school bus routing problem with bus stop selection. European Journal of Operational Research, 2013, 229, 518-528.	5.7	128
2	A genetic algorithm for a bi-objective capacitated arc routing problem. Computers and Operations Research, 2006, 33, 3473-3493.	4.0	113
3	MAPM: memetic algorithms with population management. Computers and Operations Research, 2006, 33, 1214-1225.	4.0	103
4	Genetic algorithms to minimize the weighted number of late jobs on a single machine. European Journal of Operational Research, 2003, 151, 296-306.	5.7	77
5	Multiple neighborhood search, tabu search and ejection chains for the multi-depot open vehicle routing problem. Computers and Industrial Engineering, 2017, 107, 211-222.	6.3	60
6	A History of Metaheuristics. , 2018, , 791-808.		57
7	A Two-Level solution approach to solve the Clustered Capacitated Vehicle Routing Problem. Computers and Industrial Engineering, 2016, 91, 274-289.	6.3	52
8	Metaphor-based metaheuristics, a call for action: the elephant in the room. Swarm Intelligence, 2022, 16, 1-6.	2.2	45
9	A mathematical formulation for a school bus routing problem. , 2006, , .		43
10	A column generation approach to extend lifetime in wireless sensor networks with coverage and connectivity constraints. Computers and Operations Research, 2014, 52, 220-230.	4.0	39
11	Using Lagrangean relaxation to minimize the weighted number of late jobs on a single machine. Naval Research Logistics, 2003, 50, 273-288.	2.2	37
12	Robust scheduling of wireless sensor networks for target tracking under uncertainty. European Journal of Operational Research, 2016, 252, 407-417.	5.7	36
13	A Practical Approach for Robust and Flexible Vehicle Routing Using Metaheuristics and Monte Carlo Sampling. Mathematical Modelling and Algorithms, 2009, 8, 387-407.	0.5	33
14	Lifetime maximization in wireless directional sensor network. European Journal of Operational Research, 2013, 231, 229-241.	5.7	33
15	An exact approach for maximizing the lifetime of sensor networks with adjustable sensing ranges. Computers and Operations Research, 2012, 39, 3166-3176.	4.0	32
16	D-LPCN: A distributed least polar-angle connected node algorithm for finding the boundary of a wireless sensor network. Ad Hoc Networks, 2017, 56, 56-71.	5.5	31
17	A History of Metaheuristics. , 2018, , 1-18.		30
18	An Exact Method to Minimize the Number of Tardy Jobs in Single Machine Scheduling. Journal of Scheduling, 2004, 7, 405-420.	1.9	27

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19	A genetic algorithm for robust schedules in a one-machine environment with ready times and due dates. 4or, 2004, 2, 129.	1.6	27
20	Column generation algorithm for sensor coverage scheduling under bandwidth constraints. Networks, 2012, 60, 141-154.	2.7	27
21	Exact approaches for lifetime maximization in connectivity constrained wireless multi-role sensor networks. European Journal of Operational Research, 2015, 241, 28-38.	5.7	27
22	Minimum energy target tracking with coverage guarantee in wireless sensor networks. European Journal of Operational Research, 2018, 265, 882-894.	5.7	27
23	Line formation algorithm in a swarm of reactive robots constrained by underwater environment. Expert Systems With Applications, 2015, 42, 5117-5127.	7.6	24
24	Hybrid Flow-Shop: a Memetic Algorithm Using Constraint-Based Scheduling for Efficient Search. Mathematical Modelling and Algorithms, 2009, 8, 271-292.	0.5	23
25	Matheuristic approaches forQ-coverage problem versions in wireless sensor networks. Engineering Optimization, 2013, 45, 609-626.	2.6	22
26	An exact approach to extend network lifetime in a general class of wireless sensor networks. Information Sciences, 2018, 433-434, 274-291.	6.9	18
27	Multiobjective Capacitated Arc Routing Problem. Lecture Notes in Computer Science, 2003, , 550-564.	1.3	17
28	Key Research Issues for Reconfigurable Network-on-Chip. , 2008, , .		17
29	â€œMultiple Neighbourhoodâ€•Search in Commercial VRP Packages: Evolving Towards Self-Adaptive Methods. Studies in Computational Intelligence, 2008, , 239-253.	0.9	17
30	Partial target coverage to extend the lifetime in wireless multiâ€•role sensor networks. Networks, 2016, 68, 34-53.	2.7	16
31	A curve-fitting genetic algorithm for a styling application. European Journal of Operational Research, 2007, 179, 895-905.	5.7	15
32	Solving dynamic memory allocation problems in embedded systems with parallel variable neighborhood search strategies. Electronic Notes in Discrete Mathematics, 2015, 47, 85-92.	0.4	15
33	A metaheuristic for the fixed job scheduling problem under spread time constraints. Computers and Operations Research, 2010, 37, 1045-1054.	4.0	14
34	A mathematical model and a metaheuristic approach for a memory allocation problem. Journal of Heuristics, 2012, 18, 149-167.	1.4	14
35	Robust scheduling for target tracking using wireless sensor networks. Computers and Operations Research, 2020, 116, 104873.	4.0	12
36	Reactive scheduling of complex system maintenance in a cooperative environment with communication times. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2003, 33, 225-234.	2.9	11

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37	On the use of multiple sinks to extend the lifetime in connected wireless sensor networks. Electronic Notes in Discrete Mathematics, 2013, 41, 77-84.	0.4	11
38	The Biobjective Inventory Routing Problem â€“ Problem Solution and Decision Support. Lecture Notes in Computer Science, 2011, , 365-378.	1.3	10
39	Simulation of Preference Information in an Interactive Reference Pointâ€Based Method for the Biâ€Objective Inventory Routing Problem. Journal of Multi-Criteria Decision Analysis, 2015, 22, 17-35.	1.9	10
40	Models and solving procedures for continuous-time production planning. IIE Transactions, 2000, 32, 93-103.	2.1	9
41	Models and solving procedures for continuous-time production planning. IIE Transactions, 2000, 32, 93-103.	2.1	8
42	GRASP with ejection chains for the dynamic memory allocation in embedded systems. Soft Computing, 2014, 18, 1515-1527.	3.6	8
43	Heuristics for lifetime maximization in camera sensor networks. Information Sciences, 2017, 385-386, 475-491.	6.9	8
44	Planning a multi-sensors search for a moving target considering traveling costs. European Journal of Operational Research, 2021, 292, 469-482.	5.7	7
45	Improving the performance of embedded systems with variable neighborhood search. Applied Soft Computing Journal, 2017, 53, 217-226.	7.2	6
46	A comment on â€œWhat makes a VRP solution good? The generation of problem-specific knowledge for heuristicsâ€• Computers and Operations Research, 2019, 110, 130-134.	4.0	6
47	Focus distance-aware lifetime maximization of video camera-based wireless sensor networks. Journal of Heuristics, 2021, 27, 5-30.	1.4	6
48	A Hybrid Grouping Genetic Algorithm for Multiprocessor Scheduling. Communications in Computer and Information Science, 2009, , 1-7.	0.5	6
49	On the Cover Scheduling Problem in Wireless Sensor Networks. Lecture Notes in Computer Science, 2011, , 657-668.	1.3	6
50	Three new upper bounds on the chromatic number. Discrete Applied Mathematics, 2011, 159, 2281-2289.	0.9	5
51	TABU SEARCH FOR MULTIPROCESSOR SCHEDULING: APPLICATION TO HIGH LEVEL SYNTHESIS. Asia-Pacific Journal of Operational Research, 2011, 28, 201-212.	1.3	5
52	Parallel Deadlock Detection and Recovery for Networks-on-Chip Dedicated to Diffused Computations. , 2013, , .		5
53	LPCN: Least polar-angle connected node algorithm to find a polygon hull in a connected euclidean graph. Journal of Network and Computer Applications, 2017, 93, 38-50.	9.1	5
54	Bi-Objective Cost Function for Adaptive Routing in Network-on-Chip. IEEE Transactions on Multi-Scale Computing Systems, 2018, 4, 177-187.	2.4	5

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55	Adaptive and Multilevel Metaheuristics. , 2018, , 3-21.		5
56	Application-aware Multi-Objective Routing based on Genetic Algorithm for 2D Network-on-Chip. Microprocessors and Microsystems, 2018, 61, 135-153.	2.8	5
57	Spatial and temporal robustness for scheduling a target tracking mission using wireless sensor networks. Computers and Operations Research, 2021, 132, 105321.	4.0	5
58	Interactive Approach to the Inventory Routing Problem: Computational Speedup Through Focused Search. Lecture Notes in Logistics, 2015, , 339-353.	0.8	5
59	Iterative approaches for a dynamic memory allocation problem in embedded systems. European Journal of Operational Research, 2013, 231, 34-42.	5.7	4
60	On a multi-trip vehicle routing problem with time windows integrating European and French driver regulations. Journal on Vehicle Routing Algorithms, 2019, 2, 55-74.	1.5	4
61	BVNS Approach for the Order Processing in Parallel Picking Workstations. Lecture Notes in Computer Science, 2021, , 176-190.	1.3	4
62	Two Iterative Metaheuristic Approaches to Dynamic Memory Allocation for Embedded Systems. Lecture Notes in Computer Science, 2011, , 250-261.	1.3	4
63	Heuristic Based Routing Algorithm for Network on Chip. , 2016, , .		3
64	On solving the order processing in picking workstations. Optimization Letters, 2020, , 1.	1.6	3
65	Basic variable neighborhood search for the minimum sitting arrangement problem. Journal of Heuristics, 2020, 26, 249-268.	1.4	3
66	Integrated decision support system for rich vehicle routing problems. Expert Systems With Applications, 2021, 178, 114998.	7.6	3
67	Probability-Driven Simulated Annealing for Optimizing Digital FIR Filters. Studies in Computational Intelligence, 2008, , 77-93.	0.9	3
68	Stimulating information sharing, collaboration and learning in operations research with libOR. International Journal on Digital Libraries, 2008, 8, 79-90.	1.5	2
69	A Robust-Solution-Based Methodology to Solve Multiple-Objective Problems with Uncertainty. Lecture Notes in Economics and Mathematical Systems, 2009, , 197-207.	0.3	2
70	Multiple Mobile Target Tracking in Wireless Sensor Networks. Lecture Notes in Computer Science, 2014, , 123-130.	1.3	1
71	A multiple neighborhood search for dynamic memory allocation in embedded systems. Journal of Heuristics, 2015, 21, 719-749.	1.4	1
72	Handling Discrete Demand in Continuous-Time Production Planning. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1998, 31, 463-468.	0.4	0

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73	Comments on: Tabu search tutorial. A Graph Drawing Application. Top, 2021, 29, 354-356.	1.6	0
74	MemExplorer: From C Code to Memory Allocation. Journal of Low Power Electronics, 2012, 8, 394-402.	0.6	0